United States Department of Agriculture,

BUREAU OF SOILS.

AUTHORIZATIONS.

The following assignments of field parties are made under general letters of authorization (No. 40, July 1, 1906, and No. 949, November 20, 1906) issued to the Chief of the Bureau of Soils by the Secretary of Agriculture, and constitute a proper authorization to perform the travel and incur the expenses necessary to carry out such assignments:

Upon the completion of the soil survey of Marion County, Ala., E. R. Allen will proceed to the Middlebourne area, West Virginia, to assist T. A. Caine in the soil survey of that area.

Upon the completion of the soil survey of Marion County, Ala., O. L. Ayrs will proceed to Giles County, Tenn., to make a soil survey of that county. He will be assisted by a traverseman appointed under the cooperative agreement with the U. S. Geological Survey.

Upon the completion of the soil survey of Jefferson County, Fla., H. L. Belden will proceed to Dutchess County, N. Y., to assist C. N. Mooney in the soil survey of that county.

Upon the completion of the soil survey of Robertson County, Tex., H. H. Bennett will proceed to the Easton area, Maryland, to make a soil survey of that area, comprising Queen Anne, Talbot, and Caroline counties. He will be assisted by G. W. Tailby, jr., after the completion of the field work in Sumter and Lee counties, S. C.

Upon the completion of the soil survey of Winn Parish, La., T. A. Caine will proceed to the Middlebourne area, West Virginia, to make a soil survey of that area, comprising Marshall, Tyler, and Wetzel counties. He will be assisted by E. R. Allen, H. Jennings, and H. L. Westover.

Upon the completion of the soil survey of Bastrop County, Tex., O. L. Eckman will proceed to the North Platte area, Nebraska, to assist E. L. Worthen in the soil survey of that area.

Upon the completion of the soil survey of Prentiss County, Miss., W. J. Geib will proceed to Marion County, Ind., to make a soil survey of that county. He will be assisted by F. C. Schroeder.

Upon the completion of the soil survey of Oktibbeha County, Miss., L. A. Hurst will proceed to the Whatcom area, Washington, to assist A. W. Mangum in the soil survey of that area.

Upon the completion of the soil survey of Jasper County, Miss., H. Jennings will proceed to the Middlebourne area, West Virginia, to assist T. A. Caine in the soil survey of that area.

Upon the completion of the soil survey of Jefferson County, Fla., G. B. Jones will proceed to headquarters at Washington, D. C., for assignment to special duties.

Upon the completion of the soil survey of Butler County, Ala., A. E. Kocher and H. L. Westover will proceed to Marion County, Ala., to assist in the completion of the soil survey of that county.

Upon the completion of the field work in Marion County, Ala., A. E. Kocher will proceed to Ward County, N. Dak., to make a soil survey of the White Earth area, consisting of a portion of Ward County.

On or about March 15 W. J. Latimer will proceed from headquarters at Washington, D. C., to Sumter County, S. C., to assist F. Bennett in the soil survey of Sumter and Lee counties. Upon completion of this area Mr. Latimer will proceed to Oconee County, S. C., to assist W. E. McLendon in the survey of that county.

Upon the completion of the soil survey of the Brownsville area, Texas, Ora Lee, jr., will proceed to Montgomery County, Va., to assist R. A. Winston in the soil survey of that county.

Upon the completion of the soil survey of Wilson County, Tex., W. S. Lyman and F. C. Schroeder will proceed to Bastrop County, Tex., to assist R. A. Winston in the completion of the soil survey of that county. Upon the completion of the field work in Bastrop County, Tex., Mr. Lyman will proceed to headquarters at Washington, D. C., for assignment to special duties.

Upon the completion of the soil survey of Oktibbeha County, Miss., W. E. McLendon will proceed to Oconee County, S. C., to make a soil survey of that county. He will be assisted by W. J. Latimer after the completion of field work in Sumter and Lee counties, S. C. While engaged in this work Mr. McLendon will also prepare a special large-scale soil map of the experiment station farm located in that county, correlating the soils with those of the county and writing a report upon the soils of the experiment station farm.

Upon completion of the soil survey of the Brownsville area, Texas, A. W. Mangum will proceed to the Whatcom area, Washington, to make a soil survey of that area. He will be assisted by L. A. Hurst.

Upon the completion of the soil survey of Talladega County, Ala., C. J. Mann will proceed to the Johnstown area, Pennsylvania, to take charge of the soil survey of that area, comprising portions of Bedford, Blair, and Cambria counties. He will be assisted by H. C. Smith.

Upon the completion of the soil survey of Prentiss County, Miss., C. W. Mann will proceed to the Minidoka area, Idaho, to assist A. T. Strahorn in the soil survey of that area.

Upon the completion of the soil survey of Talladega County, Ala., C. N. Mooney will proceed to Dutchess County, N. Y., to make a soil survey of that county. He will be assisted by H. L. Belden.

Upon the completion of the soil survey of the Delta-Lamar area, Texas, T. D. Rice and H. C. Smith will proceed to Bastrop County, Tex., to assist R. A. Winston in the completion of the soil survey of that county. Upon the completion of field work in Bastrop County, Tex., Mr. Rice will proceed to the Hettinger area, North Dakota, to make a soil survey of that area, comprising a portion of Hettinger and Morton counties.

Upon the completion of the soil survey of Bastrop County, Tex., F. C. Schroeder will proceed to Marion County, Ind., to assist W. J. Geib in the soil survey of that county.

On or about April 15 C. F. Shaw will proceed to Center County, Pa., to make a soil survey of that county. He will be assisted by W. E. Tharp and two traversemen appointed under the cooperative agreement with the U. S. Geological Survey. While engaged in this work he will also prepare a special large-scale soil map of the experiment station farm located in that county, correlating the soils with those of the county and writing a report upon the soils of the experiment station farm.

Upon the completion of field work in Bastrop County, Tex., H. C. Smith will proceed to the Johnstown area, Pennsylvania, to assist C. J. Mann in the soil survey of that area.

On or about May 15, A. T. Strahorn will proceed from the Colusa area, California, to the Minidoka area, Idaho, to make a soil survey of that area. He will

be assisted by C. W. Mann. While engaged in this work Mr. Strahorn will make a special large-scale soil map of the experimental plot operated by the Bureau of Plant Industry, U. S. Department of Agriculture.

Upon the completion of the soil survey of Jefferson County, Fla., W. E. Tharp will proceed to Center County, Pa., to assist C. F. Shaw in a soil survey of that county.

Upon the completion of the field work in Marion County, Ala., H. L. Westover will proceed to the Middlebourne area, West Virginia, to assist T. A. Caine in the soil survey of that area.

Upon the completion of the soil survey of Bastrop County, Tex., R. A. Winston will proceed to Montgomery County, Va., to make a soil survey of that county. He will be assisted by Ora Lee, jr. While engaged in this work Mr. Winston will also prepare a special large-scale soil map of the experiment station farm located near Blacksburg, Va., and will make a correlation of these soils with those of the county and will write a report upon the soils of the experiment station farm.

Upon the completion of the soil survey of Jasper County, Miss., E. L. Worthen will proceed to the North Platte area, Nebraska, to make a soil survey of that area. He will be assisted by O. L. Eckman.

On or about March 29, George N. Coffey will proceed from Washington, D. C., to each of the areas in progress of survey in the States of Alabama, Arkansas, Florida, Louisiana, Mississippi, and Texas, and to such other points as may be necessary for the determination of the proper classification and correlation of the soil types encountered in the progress of this work. He will arrive in the areas approximately on the following dates: Conway County, Ark., April 1; Delta-Lamar area, Texas, April 4; Laredo area, Texas, April 6; Brownsville area, Texas, April 10; Wilson County, Tex., April 13; Bastrop County, Tex., April 16; Robertson County, Tex., April 19; Winn Parish, La., April 22; Jasper County, Miss., April 25; Prentiss County, Miss., April 28; Marion County, Ala., April 30; Talladega County, Ala., May 3; Butler County, Ala., May 6; Jefferson County, Fla., May 9. The men in charge of the parties in the various areas should keep in close touch with the telegraph office about the several dates mentioned, as they will be informed as to the definite time of his arrival. Upon the completion of this assignment, he will return to headquarters at Washington, D. C., and report to the Chief of the Bureau the results of his trip.

On or about March 20, W. W. Mackie will proceed from Washington, D. C., to California, to make a detailed study of the soil, alkali, and hardpan conditions on each of the stations where viticultural experiments are being conducted by the Bureau of Plant Industry, in accordance with the agreement recently entered into between the Bureau of Plant Industry and the Bureau of Soils. He will also visit other prominent grape districts within the State to investigate the relationships of soils and soil conditions and report upon the possible extension of the grape industry, and arrange cooperative work with the farmers of the State to overcome unfavorable soil, alkali, and hardpan conditions.

On or about April 1, 1907, J. W. Nelson will proceed to various points in Delaware and Maryland for the purpose of studying the fertilizer practices and cultural methods best suited to maintain and upbuild the productivity of the fruit, truck, and general crop soils. He will confine his operations to the counties in which soil surveys have already been made and such intermediate points as is necessary to the proper conduct of the work.

On or about April 15 M. E. Carr will proceed to points in southern New York, northern Pennsylvania, and northeastern Ohio, within the region occupied by the Volusia series of soils, to study the extent and distribution of these upland soils and to ascertain the crops which they are best adapted to produce and the

methods of soil management which may most successfully be employed upon the different soil types of the series. Mr. Carr will visit all soil survey areas within which these types have been mapped and such regions lying between the areas as are necessary to the proper conduct of the investigation.

On or about April 15 H. J. Wilder will proceed to points in New York, New Jersey, Pennsylvania, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Alabama, and Tennessee, to investigate and determine the soils and soil conditions best adapted to the production of different varieties of apples, peaches, and other tree fruits and to determine the general extent and location of such soils and soil conditions within the Appalachian fruit belt. He will visit all areas of which soil surveys have been made and such intermediate areas and localities as may be necessary to the prosecution of this investigation.

Since the issuance of the last assignment sheet special letters of authorization have been issued covering the following assignments:

W. E. Hearn was authorized to proceed about February 1, 1907, from Washington, D. C., to Chapel Hill, N. C., for the purpose of delivering a course of lectures on "Soils" at the University of North Carolina. Also to collect and forward various soil samples. On completion of this assignment, on or about March 1, 1907, to proceed from Chapel Hill, N. C., to Robeson County, N. C., for the purpose of resuming the soil survey of that county.

W. E. Hearn was authorized to proceed from Chapel Hill, N. C., to Edgecombe County, N. C., on or about March 10, 1907, for the purpose of taking up the soil survey of that county. This authorization superseded the above authorization and that in assignment sheet of January 11, 1907, directing him to go to Robeson County, N. C., upon completion of his assignment at Chapel Hill.

R. A. Winston was authorized February 2, 1907, to proceed immediately from Morrillton, Ark., to Bastrop, Tex., to relieve F. N. Meeker, and take charge of the soil survey of Bastrop County, Tex. This change was necessitated by the serious illness of Mr. Meeker.

J. A. Bonsteel was authorized to proceed on or about March 11, 1907, from Washington, D. C., to points in Louisiana, Texas, Mississippi, Alabama, Georgia, North and South Carolina, where soil survey work is being conducted, and to such other points in the South as may be necessary, to investigate the progress of the soil survey work in the Gulf States and to secure information for preparing plans for future soil survey work in the general region.

Geo. T. McNess was authorized to proceed to Lynchburg, Va., on or about January 31, 1907, for the purpose of conferring with the Director of the Virginia experiment station regarding cooperative tobacco work of the Bureau of Soils in Virginia. Also to visit the Bureau's stations at Appomattox and Chatham.

Geo. T. McNess was authorized to proceed about February 11, 1907, to Baldwinsville, N. Y., for the purpose of visiting the tobacco station of the Bureau at that place. Authority was given him to stop in New York City to visit the members of the Tobacco Board of Trade of that city.

R. W. Rowe was authorized to proceed about February 16, 1907, from Baldwinsville, N. Y., to Tallahassee, Fla., via New York City and Washington, D. C., stopping one day in New York City for the purpose of interviewing the tobacco dealers of that place and three days in Washington, D. C., for the purpose of consultation with the Chief of the Bureau. Upon arrival at Tallahassee he assumed supervision under direction from the Chief of Bureau of the tobacco work being instituted by the Bureau of Soils in the tobacco district of Florida.

Geo. T. McNess was authorized to proceed from Washington, D. C., on or about February 19, 1907, to Tallahassee, Fla., for the purpose of establishing a tobacco station at that place under the supervision of this Bureau. Also to visit different points in Florida, Alabama, and Georgia for the purpose of inspecting

the tobacco work being done by the Bureau in those States, returning to headquarters in Washington, D. C., on the completion of this work.

Bailey E. Brown was authorized to proceed from Washington, D. C., on or about March 1, 1907, to State College, Pa., for the purpose of carrying on soil fertility investigations at that place in cooperation with and under the direction of the Pennsylvania agricultural experiment station.

F. D. Gardner was authorized to proceed from Washington, D. C., on or about March 11, 1907, to points in Louisiana, Texas, Mississippi, Alabama, Georgia, and South Carolina, where soil survey work is being conducted, and to such other points as may be necessary in the South, to investigate the manurial and cultural requirements of soils and to secure information for the preparation of plans for future work upon these general problems.

The necessary traveling and other expenses incurred in consequence of these assignments will be reimbursed in accordance with the fiscal regulations of the Department, upon the presentation of expense accounts properly executed and supported by subvouchers. All travel performed under these assignments must be via the most direct and quickest routes available and at the lowest limited-fare rates.

SOIL SURVEY.

JAY A. BONSTEEL, *In Charge.*

In charge of soil classification and correlation, GEORGE N. COFFEY.
In charge of areal surveys, JESSE E. LAPHAM.
In charge of survey of alkali lands, MACY H. LAPHAM, Willows, Cal.
In charge of soil mapping of agricultural school farms, W. T. CARTER, JR.
In charge of maps and records, GEORGE W. BAUMANN.

Projects.

WINTER SEASON.

State.	Area.	Square miles.	Per cent completed Mar. 2.	Party.
Alabama	Butler County[1]	769	77	Kocher-Westover.
Do	Marion County[1]	744	37	Ayrs-Allen-Kocher-Westover.
Do	Talladega County[2]	677	30	Mooney-Mann, C. J.
Arkansas	Conway County[1]	489	100	Burgess-Winston.
California	Colusa area[2]	762	61	Lapham, M. H.-Sweet. Strahorn-Holmes.
Florida	Jefferson County[1]	593	44	Jones-Belden-Tharp-Duck.
Louisiana	Winn Parish[1]	957	52	Caine-Lee, L. L.
Mississippi	Jasper County[1]	647	47	Worthen-Jennings.
Do	Oktibbeha County[1]	435	56	McLendon-Hurst.
Do	Prentiss County[1]	420	37	Geib-Mann, C. W.
North Carolina	Robeson County	1,043	*5	
South Carolina	Lee and Sumter counties[1]	860	12	Bennett, F.-Tailby. Burgess-Latimer.
Texas	Bastrop County[1]	881	22	Winston-Eckman-Rice. Smith, H.C.-Lyman-Schroeder.
Do	Brownsville area[1]	300	18	Mangum-Lee, Ora, jr.
Do	Delta and Lamar counties[1]	619	68	Rice-Smith, H. C.
Do	Laredo area[1]	150	100	Mangum-Lee, Ora, jr.
Do	Robertson County[1]	913	53	Bennett, H. H.-Lovewell.
Do	Wilson County[1]	784	83	Lyman-Schroeder.

[1] Plane table to be used if reliable map can not be obtained. [2] Topographic sheet.
*Work temporarily suspended pending the construction of a traverse map.

Projects.

SUMMER SEASON.

State.	Area.	Square miles.	Per cent completed.	Party.
Idaho	Minidoka area [2]	160		Strahorn-Mann, C. W.
Indiana	Marion County [1]	400		Geib-Schroeder.
Maryland	Easton area [2]	982		Bennett, H. H.-Tailby.
Nebraska	North Platte area [2]	300		Worthen-Eckman.
New York	Dutchess County [2]	800		Mooney-Belden.
North Carolina	Edgecombe County [2]	515		Hearn.
North Dakota	Hettinger area [1]	600		Rice.
Do	White Earth area [1]	600		Kocher.
Pennsylvania	Johnstown area [2]	700		Mann, C. J.-Smith, H. C.
Do	Center County [1]	1,130		Shaw-Tharp and 2 traverse men.
South Carolina	Oconee County [1]	641		McLendon-Latimer.
Tennessee	Giles County [1]	605		Ayrs-traverseman.
Virginia	Montgomery County [2]	394		Winston-Lee, Ora, jr.
Washington	Whatcom area [2]	400		Mangum-Hurst.
West Virginia	Middlebourne area [2]	945		Caine-Allen-Jennings-Westover.

[1] Plane table to be used if reliable map can not be obtained. [2] Topographic sheet.

Problems.

Upland Soils of the Volusia Series.—Mr. M. E. Carr has been assigned during the field season of 1907 to make a study of the extent, distribution, and characteristics of the various soils of the Volusia series occurring in southern New York, northern Pennsylvania, and northeastern Ohio. He is to visit all of those areas within this general region of which soil surveys have been made and such intermediate localities as are necessary in order to determine the adaptation of these soils to the production of the different farm crops and to determine the proper methods of soil management and of crop adaptation suited to a more complete utilization and more profitable development of this section.

Appalachian Fruit Belt.—Mr. H. J. Wilder has been assigned to a study of the soils of the Appalachian fruit belt best adapted to the production of individual varieties of apples, peaches, and other tree fruits. He is to visit all of the areas of which soil surveys have been made in this fruit belt and such intermediate localities as may be necessary to determine the characteristics of the various soil types adapted to each variety of fruit and to study the methods of soil management best suited to the utilization of these soils for fruit production.

Correlation.

The following additional soil types have been encountered since the issuance of the last assignment sheet:

From the Brownsville area, Texas, A. W. Mangum reports Laredo silt loam, Rio Grande silt clay, Cameron clay, and Cameron silt clay. The Laredo silt loam consists of 12 inches of a light-brown to gray silt loam, underlain by slightly heavier material. The Rio Grande silt clay is a brown to dark-brown heavy silty clay, 12 to 20 inches deep, underlain by fine sandy silty loam. The Cameron clay consists of 12 inches of a heavy dark-brown to black stiff and tenacious clay, underlain by heavy clay slightly lighter in color than the soil. The Cameron silt clay consists of 12 to 15 inches of a brown to dark-brown silty clay, underlain by heavy light-brown to gray silty clay. All of these types are of alluvial origin, having been formed from material deposited by the Rio Grande. Their correlation has not been determined, and it seems probable that a new series will have to be made of these soils.

From Jasper County, Miss., E. L. Worthen reports Norfolk coarse sand, Orangeburg fine sand, Wabash clay, Houston clay, Congaree loam, Lufkin clay,

Success sandy loam, Susquehanna fine sandy loam, and Susquehanna clay. The Success sandy loam is described as a gray to brown sand or sandy loam 10 inches deep, underlain by heavy plastic sandy clay of a red or yellow and gray mottled color. It seems probable that this type can be placed in the Susquehanna series.

From Delta and Lamar counties, Tex., T. D. Rice reports Houston loam, Lufkin fine sandy loam, Lufkin clay, and Delta clay. The Delta clay consists of a black heavy clay 16 inches deep, underlain by dark-drab silty clay. It has been formed by wash from the Houston soils of the uplands. This type appears to be similar to the Wabash clay in other areas in Texas and can doubtless be correlated with this soil.

From Oktibbeha County, Miss., W. E. McLendon reports Susquehanna clay loam and Orangeburg clay.

From Robertson County, Tex., H. H. Bennett reports Wabash fine sandy loam, Wabash silt loam, and several members of the Miller series.

From Talladega County, Ala., C. N. Mooney reports Clarksville stony loam, Hagerstown stony loam, Hagerstown clay, Dekalb silt loam, Wabash silt loam, and Coosa fine sandy loam. The Dekalb silt loam occurs in flat areas at the head of streams and is poorly drained. It seems probable, therefore, that a new type will have to be established for this soil. The Wabash silt loam can probably best be placed in the Huntington series, which was described in the last assignment sheet. The Coosa fine sandy loam consists of 8 inches of light-brown fine sandy loam overlying a stiff red clay. It represents a thin deposit of alluvium over limestone. It may possibly be called the Cumberland fine sandy loam.

From Winn Parish, La., T. A. Caine reports Houston clay, Orangeburg sandy loam, Miller fine sandy loam, and Miller clay.

From Wilson County, Tex., W. S. Lyman reports Lufkin sand and Lufkin sandy loam.

Notes.

In case the man assigned as assistant on any of the surveys should arrive in the new area prior to the arrival of the man assigned in charge, which will sometimes happen when reassignments of soil-survey parties are made, the assistant will begin field work at once and will assume all duties and responsibilities connected with the survey until such time as the man in charge arrives.

J. L. Burgess, upon the completion of Conway County, Ark., proceeded to Sumter County, S. C., to assist F. Bennett in the soil survey of Sumter and Lee counties.

W. T. Carter, jr., will continue the work of making special soil surveys of the newly established agricultural school farms in the various Congressional districts of Georgia, in accordance with the provisions of his original authorization.

PHYSICAL AND CHEMICAL INVESTIGATIONS.

FRANK K. CAMERON, *In Charge.*

INVESTIGATORS.

G. H. Failyer.	W. C. Taber.	W. O. Robinson.
J. M. Bell.	F. E. Gallagher.	H. R. Wade.
H. E. Patten.	W. H. Waggaman.	D. H. Hill.
J. G. Smith.	C. C. Fletcher.	Harry Bryan.

Problems.

In the laboratories which are maintained to study the many problems encountered by the field forces it is not possible to organize along the line of projects, nor advisable to assign men permanently to long-continued lines of work, but to

assign them temporarily to any one of the many problems when new facts are presented by the field work which make it appear probable that some further advance may be made in any of the large problems which the Bureau, as a whole, is considering. The following are the principal problems being investigated at present by the laboratories, and any suggestions along these lines that may occur to the field men, as a result of the work in the areas they are assigned to, should be submitted:

Soil Composition:

Investigations of the mineral constituents of soils.
Investigations of the organic constituents of soils.
Composition of soil solutions.
Absorption and retention of fertilizers.
Effect of fertilizers on soils.

Soil Constitution:

Investigation of the texture and structure of soils.
The formation and removal of hardpan in soils.

Soil Tillage:

Tillage requirements for the maintenance of the fertility of soils.
Renovation of worn-out and abandoned soils.

Soil Climatology:

The retention and movement of soil moisture.
Drought limits of soils.
Soil temperatures.
Soil atmosphere and ventilation.

Notes.

W. J. Latimer has been transferred to the Soil Survey.

SOIL MANAGEMENT.

FRANK D. GARDNER, *In Charge.*

Projects.

Manurial Requirements of Soil Types:

Washington, D. C.—F. D. Stevens in charge, assisted by A. M. Sanchez, L. A. Kolbe, James H. Beattie, and J. F. Warner.

Soil Management Experiments at Arlington Farm:

Henry Winckelmann.

Compiling Results of Field Fertilizer Tests in the United States:

G. B. Maynadier.

Location of Agricultural School Farms:

Georgia and Alabama.—W. G. Smith in charge, assisted by J. C. Britton.

Field Investigations:

J. W. Nelson is in Washington preparing plans for summer's field work. Assignment given elsewhere.

FERTILITY INVESTIGATIONS.

OSWALD SCHREINER, *In Charge.*

Projects.

Soil physiology, including such conditions in the soil as result from plant and bacterial life: H. S. Reed, J. C. Gilbert.

Investigations of the presence and nature of toxic substances in infertile soils: Charles A. Jensen.

Investigations of manures and fertilizers in overcoming toxic constituents in infertile soils: J. F. Breazeale.

Investigations upon the rôle of manures and fertilizers in soils, particularly whether they act upon the soil or upon the plant: J. J. Skinner.

Investigations upon the rôle of manures and fertilizers in soils, particularly with reference to the amounts, ratios, time of action, and residual effects: F. R. Reid and J. E. McClintock.

Development of methods for carrying on fertility investigations: A. M. Jackson.

Notes.

Dr. E. C. Shorey reported for duty in Washington, D. C., January 30, 1907.

Dr. M. X. Sullivan will report for duty March 18, 1907.

Bailey E. Brown has been temporarily detailed to the Pennsylvania Agricultural College at State College, Pa., as assistant professor of agronomy, to carry on certain investigations in soil fertility.

ALKALI LAND RECLAMATION.

CLARENCE W. DORSEY, *In Charge.*

Notes.

J. F. Warner has been transferred to the Division of Soil Management.

TOBACCO INVESTIGATIONS.

GEORGE T. MCNESS, *In Charge.*

Projects.

Alabama: Production of Cuban type of tobacco—L. W. Ayer, R. S. Epley, Marion; W. B. Schrader, Minters.

Florida: Production of cigar wrapper leaf tobacco—R. W. Rowe, Tallahassee.

New York: Improvement of Onondaga tobacco, and introduction of bulk method of fermentation—Geo. W. Harris, Baldwinsville.

Ohio: Production of Cuban type of tobacco; Bulk method of fermenting Ohio leaf—G. B. Massey, Germantown.

Texas: Production of Cuban type of filler tobacco; Production of Sumatra type of wrapper tobacco—W. M. Hinson and Harry Rich, Palestine; Otto Olson, Nacogdoches.

Virginia: Production of export tobacco—E. H. Mathewson, Appomattox. Production of bright tobacco—W. W. Green, Chatham.

ADMINISTRATION.

Chief Clerk, A. G. RICE.

Accounts, C. A. WOLFE.

Supplies, J. W. MCKERICHER.

Within the next few days a revised form of Supply Request Card (Form No. 60) will be forwarded to the field men. Upon receipt of this new form, all copies of the old card (Form 43) should be destroyed.

Changes in the Service.

F. N. Meeker has been granted a furlough for three months commencing February 26, 1907, account of serious illness.

J. A. Duck was appointed as a map draftsman in the Soil Survey January 21, 1907.

Harry Bryan was transferred from the Navy Department to the Bureau of Soils as a mechanician January 7, 1907, and assigned to the Soil Laboratories.

D. H. Hill was transferred from the Bureau of Chemistry to the Bureau of Soils as a laboratory helper January 16, 1907, and assigned to the Soil Laboratories.

H. R. Wade was appointed as a scientific assistant February 18, 1907, and assigned to the Soil Laboratories.

R. W. Rowe was appointed as a tobacco expert January 21, 1907, and temporarily stationed at Tallahassee, Fla., in charge of the Bureau's tobacco investigations in that State.

J. C. Gilbert was appointed as a scientific assistant March 4, 1907, and assigned to the Division of Soil Fertility.

C. L. Cook resigned January 24, 1907, to accept a position as Assistant Chemist in the U. S. Navy Yard, Mare Island, California.

C. L. Hall, messenger, was transferred to the Bureau of Plant Industry January 17, 1907.

Maurice Bresnahan was appointed messenger on February 1, 1907.

Geo. C. Hale, clerk, resigned February 4, 1907.

Frank Haynie, clerk, was transferred to the Bureau of Forestry February 7, 1907.

E. W. Pearce was appointed a clerk on February 26, 1907.

Frederic E. Hodge was appointed a clerk February 1, 1907.

PUBLICATIONS.

The following publications of the Bureau of Soils have been received from the printer since the last assignment sheet and are now available for distribution:

Bulletins.

Bulletin No. 38. Studies on the Movement of Soil Moisture. By Edgar Buckingham.

Bulletin No. 39. Effects of Shading on Soil Conditions. By J. B. Stewart.

Advance Sheets—Field Operations.

Soil Survey of Portage County, Wisconsin. By F. N. Meeker and R. T. Avon Burke.

Soil Survey of Montgomery County, Pennsylvania. By Henry J. Wilder, A. T. Strahorn, and W. J. Geib.

Soil Survey of Lee County, Texas. By James L. Burgess and W. S. Lyman.

Soil Survey of the Cleveland Area, Ohio. By J. E. Lapham and Charles N. Mooney.

Soil Survey of the Binghamton Area, New York. By Elmer O. Fippin and William T. Carter, jr.

Soil Survey of Cherokee County, South Carolina. By J. A. Drake and H. L. Belden.

Soil Survey of New Hanover County, North Carolina. By J. A. Drake and H. L. Belden.

Soil Survey of Tompkins County, New York. By Jay A. Bonsteel, Elmer O. Fippin, and William T. Carter, jr.

Soil Survey of the Stockton Area, California. By Macy H. Lapham and W. W. Mackie.

Soil Survey of the Everett Area, Washington. By E. P. Carr and A. W. Mangum.

MILTON WHITNEY,
Chief of Bureau.

WASHINGTON, D. C., *March 12, 1907.*

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